



## SEQUENCE LISTING

&lt;110&gt; AVENTIS PHARMA S.A.

5 <120> Novel variants of the papM polypeptide of bacteria of the Streptomyces  
genus

&lt;130&gt; PapM polypeptide

10 <140> FR0208057

&lt;141&gt; 2002-06-28

&lt;160&gt; 2

15 <170> PatentIn Ver. 2.1

&lt;210&gt; 1

&lt;211&gt; 1052

&lt;212&gt; DNA

20 <213> Streptomyces pristinaespiralis

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (84)..(962)

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30

Val Thr Ala Ala Ala Pro Thr Leu Ala Gln

1 5 10

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Ala Leu Asp Glu Ala Thr Gly Gln Leu Thr Gly Ala Gly Ile Thr Ala

35

15 20 25

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Asp Ala Ala Arg Ala Asp Thr Arg Leu Leu Ala Ala His Ala Cys Gln

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30 35 40

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Val Ala Pro Gly Asp Leu Asp Thr Cys Leu Ala Gly Pro Val Pro Pro

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cgg ttc tgg cac tac gtc cgg cgc cgt ctg acc cgc gaa ccc gcc gaa 305

Arg Phe Trp His Tyr Val Arg Arg Arg Leu Thr Arg Glu Pro Ala Glu

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Arg Ile Val Gly His Ala Tyr Phe Met Gly His Arg Phe Asp Leu Ala

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 Ser His Ala Ser Ser Arg Pro Thr Cys Asn Asp Gly Cys Leu Thr Ala  
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 20                      25                      30  
 20    Thr Arg Leu Leu Ala Ala His Ala Cys Gln Val Ala Pro Gly Asp Leu  
       35                      40                      45

25      Asp Thr Cys Leu Ala Gly Pro Val Pro Pro Arg Phe Trp His Tyr Val  
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     Arg Arg Arg Leu Thr Arg Glu Pro Ala Glu Arg Ile Val Gly His Ala  
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Lys Pro Glu Thr Glu Glu Ile Thr Arg Asp Ala Ile Ala Arg Leu Glu  
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Ala Arg Val Leu Gly Ile Glu Leu Ser Gln Ala Ala Ala Arg Ala Ala  
145 150 155 160

Arg Arg Asn Ala Arg Gly Thr Gly Ala Arg Ile Val Gln Gly Asp Ala  
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Arg Asp Ala Phe Pro Glu Leu Ser Gly Thr Val Asp Leu Val Val Thr  
180 185 190

50 Asn Pro Pro Tyr Ile Pro Ile Gly Leu Arg Thr Ser Ala Pro Glu Val  
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Leu Glu His Asp Pro Pro Leu Ala Leu Trp Ala Gly Glu Glu Gly Leu  
 210 215 220

5 Gly Met Ile Arg Ala Met Glu Arg Thr Ala Ala Arg Leu Leu Ala Pro  
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Gly Gly Val Leu Leu Leu Glu His Gly Ser Tyr Gln Leu Ala Ser Val  
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10 Pro Ala Leu Phe Arg Ala Thr Gly Arg Trp Ser His Ala Ser Ser Arg  
 260 265 270

15 Pro Thr Cys Asn Asp Gly Cys Leu Thr Ala Val Arg Asn His Thr Cys  
 275 280 285

Ala Pro Pro Ala  
 290